Fig.1

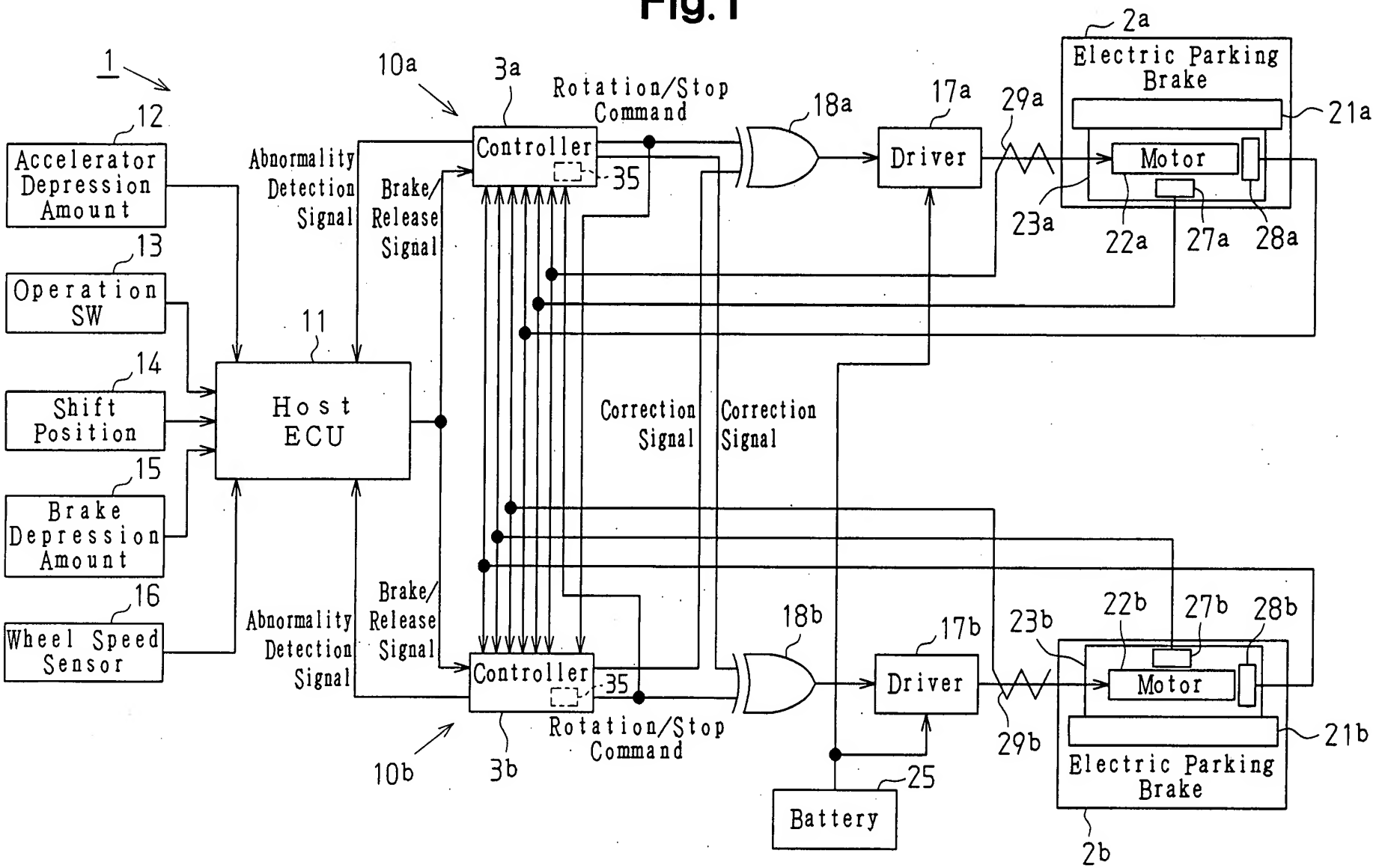

1
12
Accelerator Depression Amount
13
Operation SW
14
Shift Position
15
Brake Depression Amount
16
Wheel Speed Sensor
11
Host ECU
10a
3a
Controller
35
Abnormality Detection Signal
Brake/ Release Signal
Rotation/Stop Command
18a
17a
Driver
29a
2a
Electric Parking Brake
21a
Motor
23a
22a
27a
28a
Correction Signal
Correction Signal
10b
3b
Controller
35
Abnormality Detection Signal
Brake/ Release Signal
Rotation/Stop Command
18b
17b
Driver
23b
22b
27b
28b
29b
Motor
21b
Electric Parking Brake
2b
25
Battery

Fig.2

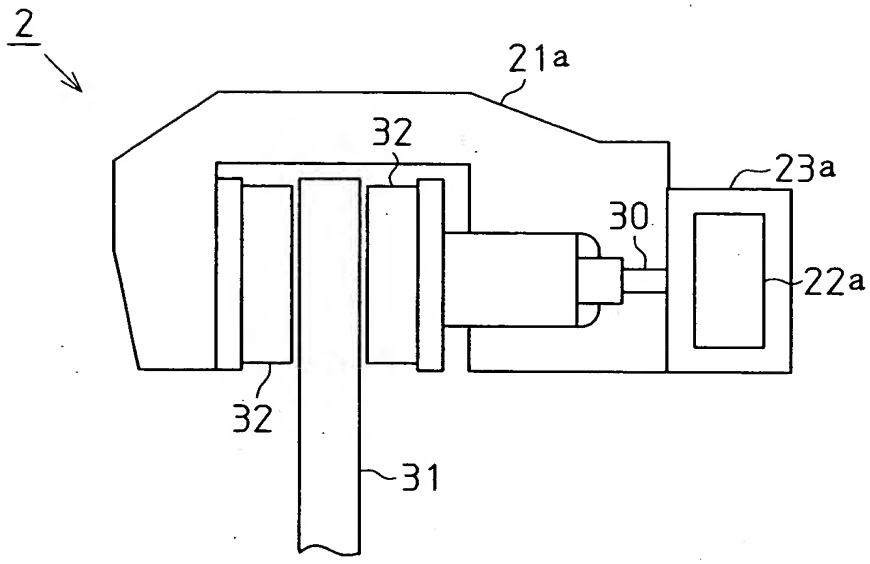


Fig.3

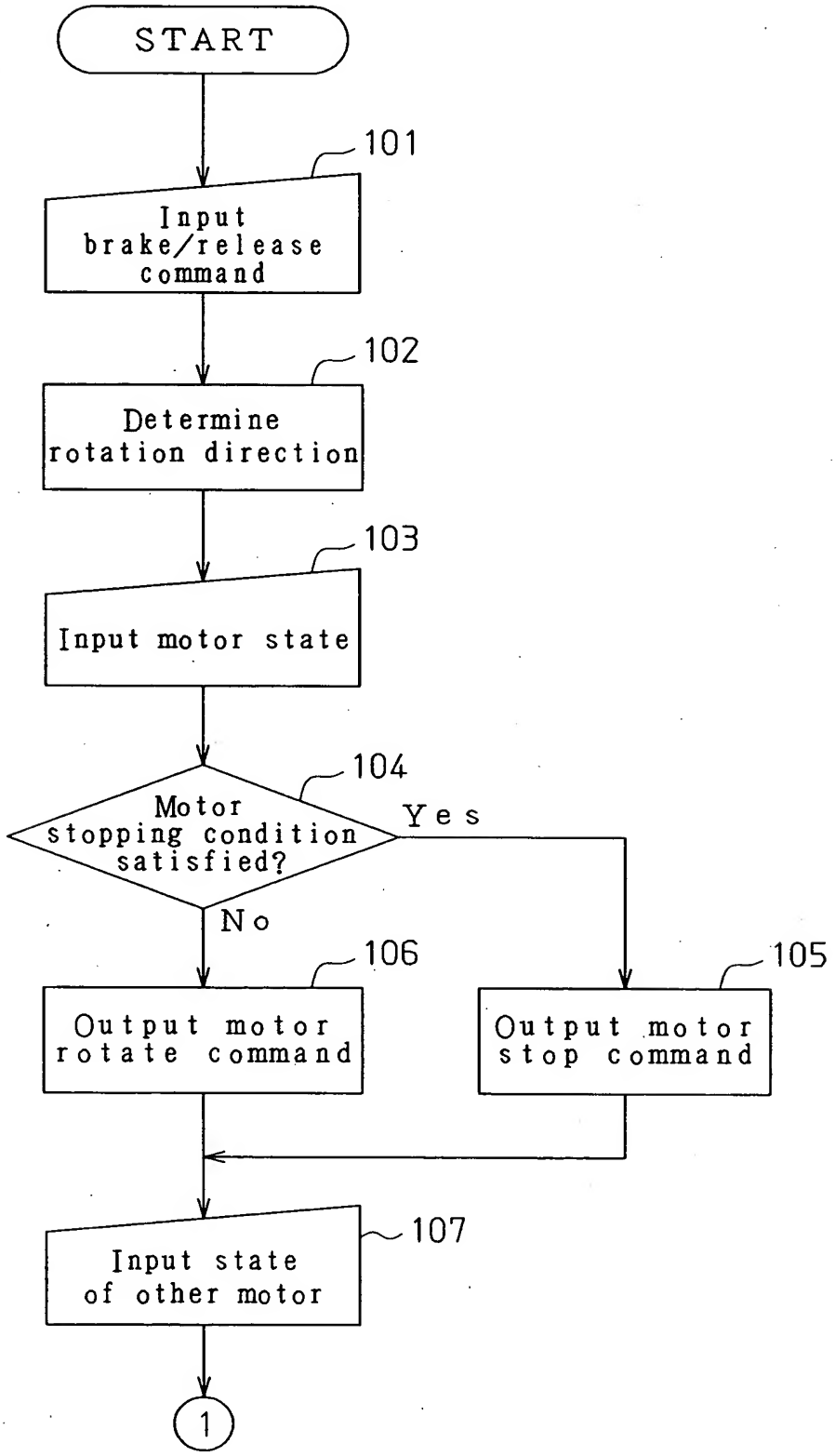

START
101
Input brake/release command
102
Determine rotation direction
103
Input motor state
104
Motor stopping condition satisfied?
Yes
No
106
Output motor rotate command
105
Output motor stop command
107
Input state of other motor
1

Fig.4

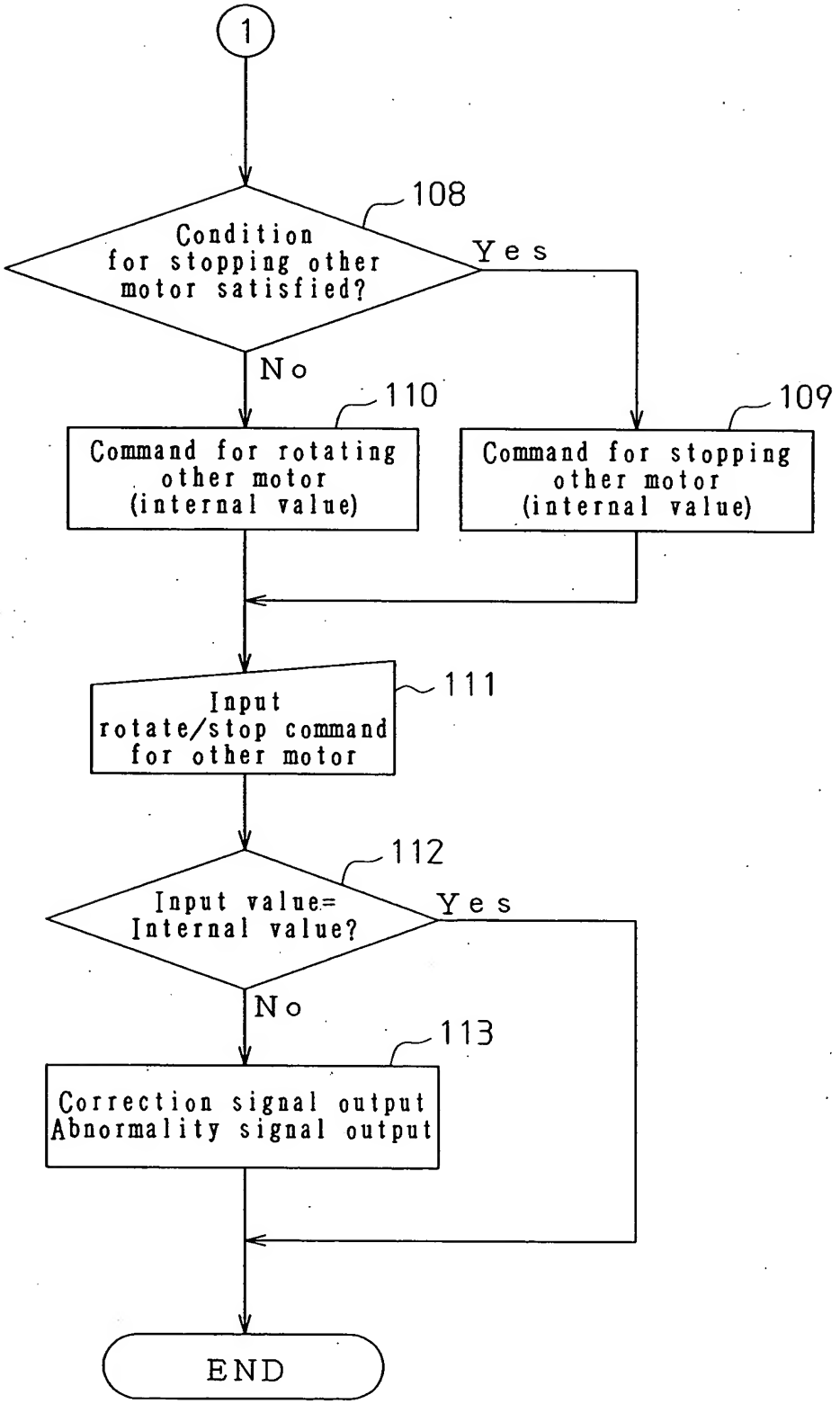

1
108
Condition for stopping other motor satisfied?
Yes
No
110
Command for rotating other motor (internal value)
109
Command for stopping other motor (internal value)
111
Input rotate/stop command for other motor
112
Input value= Internal value?
Yes
No
113
Correction signal output Abnormality signal output
END

Fig.5

35

36

Input Signal	Elapsed Time (Distance)	Current Sensor	1st Rotation Speed Sensor	2nd Rotation Speed Sensor	Abnormality Location (State)
Brake or Release	—	I<I1	No Change	No Change	Driver or Motor (Breakage)
		I>I2	—	—	Driver or Motor (Short Circuit)
	T<T0	I<I1	Change	Change	Current Sensor
		I>I1	No Change	Change	1st Rotation Speed Sensor
		I>I1	Change	No Change	2nd Rotation Speed Sensor
		I>I3	No Change	No Change	Actuator (Lock)
Brake	T>T1	I<I3	Change	Change	Actuator (Motor Idling)
Release	T>T2	—	Change	Change	Actuator (Defective Reverse Rotation)
	X<X0	—	No Change	No Change	Actuator (Excessive Reverse Rotation)

Fig.6

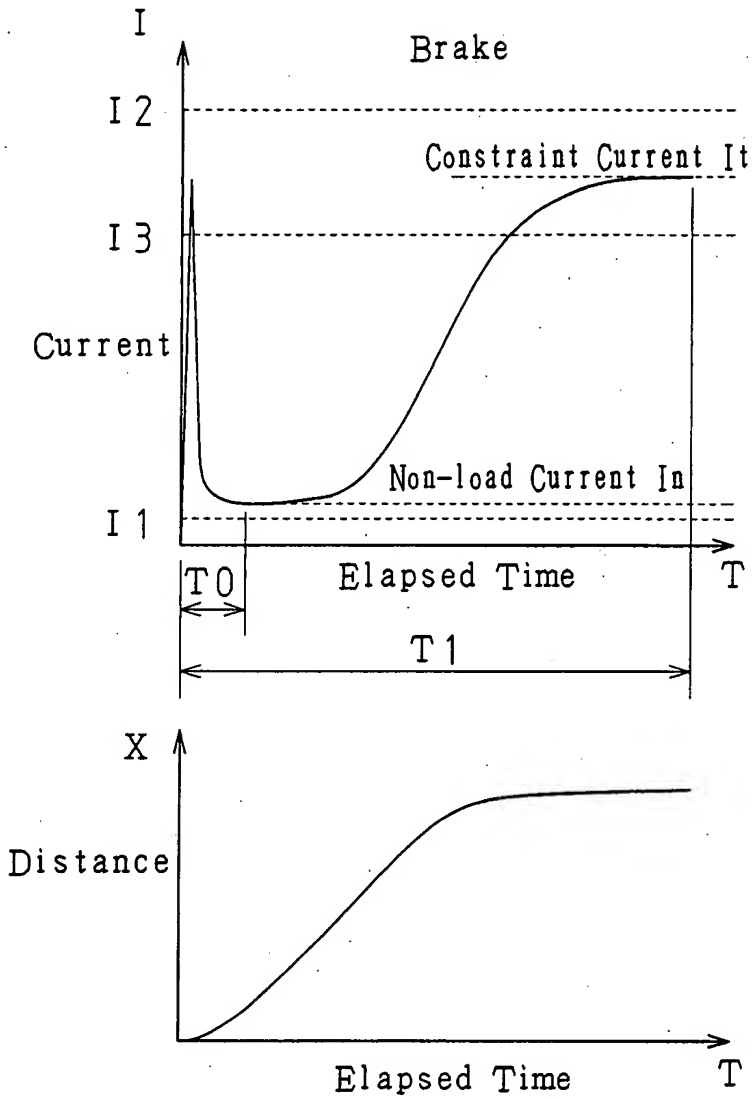

I
Brake
I 2
Constraint Current It
I 3
Current
Non-load Current In
I 1
T 0
Elapsed Time
T
T 1
X
Distance
Elapsed Time
T

Fig.7

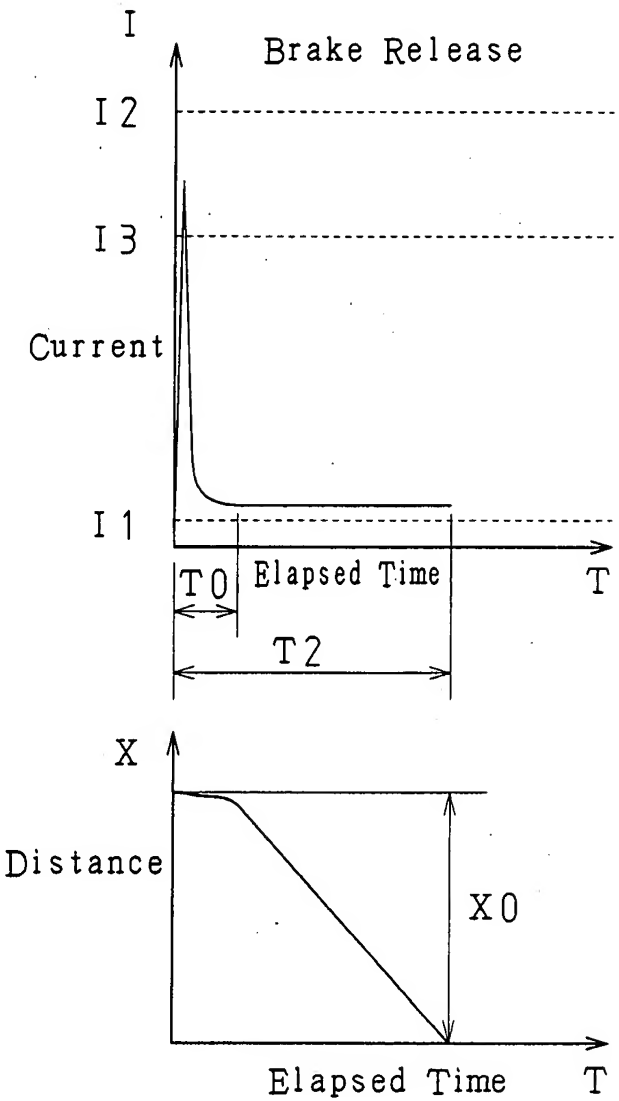

I
Brake Release
I 2
I 3
Current
I 1
T 0
Elapsed Time
T
T 2
X
Distance
X 0
Elapsed Time
T

Fig.8

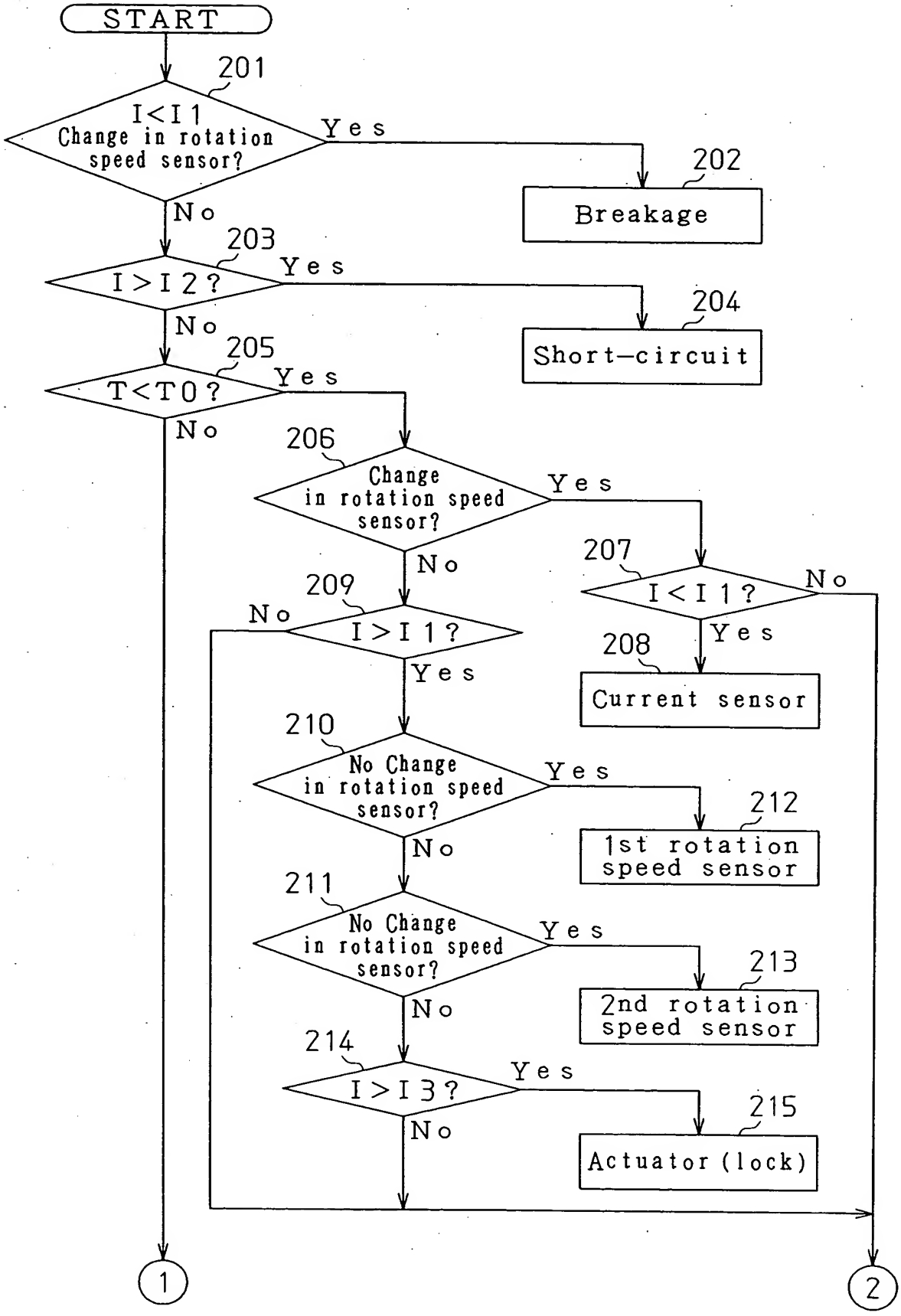
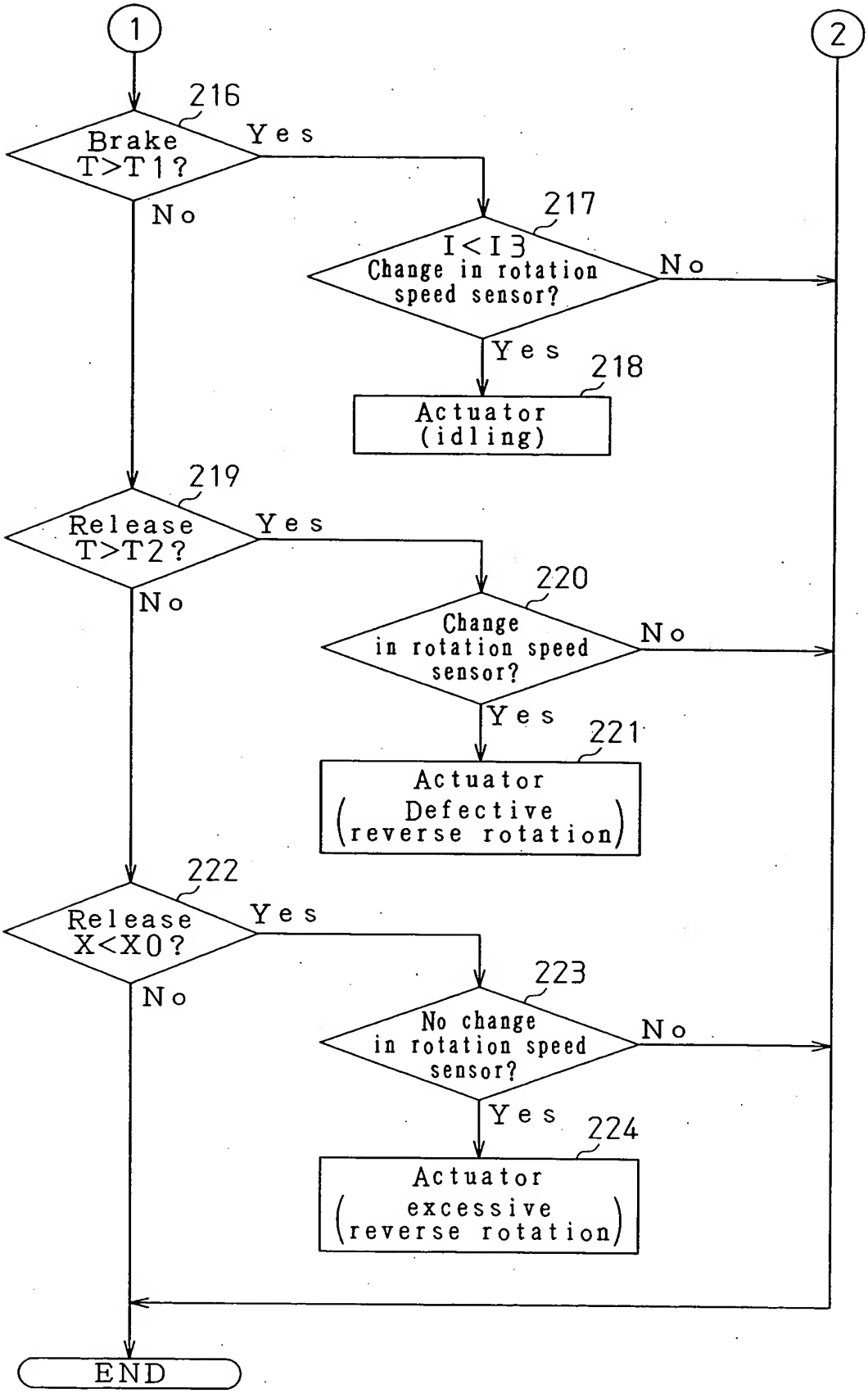

START
201
I<I1
Change in rotation speed sensor?
Yes
No
202
Breakage
203
I>I2?
Yes
No
204
Short-circuit
205
T<T0?
Yes
No
206
Change in rotation speed sensor?
Yes
No
207
I<I1?
No
Yes
208
Current sensor
209
I>I1?
No
Yes
210
No Change in rotation speed sensor?
Yes
No
212
1st rotation speed sensor
211
No Change in rotation speed sensor?
Yes
No
213
2nd rotation speed sensor
214
I>I3?
Yes
No
215
Actuator (lock)
1
2

Fig.9


1
2
216
Brake
T>T1?
Yes
No
217
I<I3
Change in rotation speed sensor?
No
Yes
218
Actuator
(idling)
219
Release
T>T2?
Yes
No
220
Change
in rotation speed sensor?
No
Yes
221
Actuator
Defective
(reverse rotation)
222
Release
X<X0?
Yes
No
223
No change
in rotation speed sensor?
No
Yes
224
Actuator
excessive
(reverse rotation)
END